Amendments to the Specification

The following amendment to the Abstract replaces the previous Abstract in full.

Abstract

The instant invention is a method for increasing a metazoan's lifespan, comprising administering a carboxylated derivative of a C(sub)60 fullerene. The instant invention further is a process for extending a metazoan's lifespan by administering a superoxide dismutase-mimetic as well as a composition comprising a superoxide dismutase-mimetic. Further, the instant invention comprises a pharmaceutical composition comprising carboxyfullerenes having x pairs of adjacent carbon atoms bonded to two carbons of the C(sub)60 sphere wherein said adjacent carbon atom is further bonded to two groups of the general formula -COOH and -R, wherein R is independently selected from the group consisting of -COOH and -H, and wherein x is at least 1. A further embodiment is a non-metal containing composition which can catalytically eliminate two biologically reactive species. Another embodiment is a method of enhancing elimination of reactive oxygen species in eukaryotic cells by contacting cells with a superoxide dismutase mimetic.

3156439v1 2

Amendments to the Specification

Please replace the paragraph beginning on line 19 of page 2 and extending to line 3 of page 3 with the following paragraph:

Calorie restriction (CR) has been shown to increase lifespan by 25-35% in all animals studied to date (mice, rats, several species of monkeys, dogs, humans, as well as non-metazoan species such as spiders, Nematodes, and Drosophila). (NB: All animals are metazoans.) However, caloric intake needs to reduced by as much as 30-40% to achieve robust effects on longevity. Ongoing studies in rhesus and squirrel monkeys at the National Institute of Aging ("NIA") (Roth et al., Eur. J. Clin. Nutr. S:157, 2000 Eur. J. Clin. Nutr. S:15, 2000) found biochemical changes in calorie restricted monkeys similar to changes reported in rodents thereby supporting the universal nature of calorie restriction on biochemical processes across vertebrate species.

3156439v1 3